

Jerry

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**CLASSIFICATION AND CORRELATION
OF**

THE SOILS OF

FILE COPY

**WASHINGTON COUNTY
INDIANA**

JULY 1984

LOCATION



**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MIDWEST NATIONAL TECHNICAL CENTER
LINCOLN, NEBRASKA**

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UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
Midwest National Technical Center
Lincoln, Nebraska 68508

Classification and Correlation
of the Soils of
Washington County, Indiana

A correlation conference was held at the MNTC in Lincoln, Nebraska, April 9 through April 12, 1984. Participating were Mac H. Robards, party leader; Leon B. Davis, assistant state soil scientist; and Louie L. Buller, soil correlator. The documentation on which the correlation is based are the field correlation, draft of the manuscript, correlation samples, laboratory data, and field sheets. Mr. Buller participated on the comprehensive field review the week of December 13, 1983.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of a combination of letters or of letters and a number. The first capital letter is the initial one of the map unit name. The lower-case letter that follows separates map units having names that begin with the same letter, except it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 indicates that the soil is eroded and 3 that it is severely eroded.

SOIL CORRELATION OF
WASHINGTON COUNTY, INDIANA

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
PrB, BmB	Princeton fine sandy loam, 2 to 6 percent slopes	AlB	Alvin fine sandy loam, 2 to 6 percent slopes
AvA	Avonburg silt loam, 0 to 2 percent slopes	AvA	Avonburg silt loam, 0 to 2 percent slopes
Ba	Bartle silt loam	Ba	Bartle silt loam
BdA	Bedford silt loam, 0 to 2 percent slopes	BdA	Bedford silt loam, 0 to 2 percent slopes
BdB	Bedford silt loam, 2 to 6 percent slopes	BdB	Bedford silt loam, 2 to 6 percent slopes
BdC2	Bedford silt loam, 6 to 12 percent slopes, eroded	BdC2	Bedford silt loam, 6 to 12 percent slopes, eroded
BhF	Berks-Weikert complex, 25 to 75 percent slopes	BhF	Berks-Weikert complex, 25 to 75 percent slopes
BmC	Bloomfield loamy fine sand, 6 to 18 percent slopes	BmC	Bloomfield loamy fine sand, 6 to 18 percent slopes
BmF	Bloomfield loamy fine sand, 18 to 40 percent slopes	BmF	Bloomfield loamy fine sand, 18 to 40 percent slopes
Bo	Bonnie silt loam, frequently flooded	Bo	Bonnie silt loam, frequently flooded
Br	Bromer silt loam	Br	Bromer silt loam
Bu	Burnside silt loam, occasionally flooded	Bu	Burnside silt loam, occasionally flooded
CaE2, HaE2, HaE3	Caneyville-Hagerstown silt loams, 18 to 25 percent slopes, eroded	CaE2	Caneyville-Hagerstown silt loams, 18 to 25 percent slopes, eroded

WASHINGTON COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
CdF, CoF	Caneyville-Rock outcrop complex, 25 to 50 percent slopes	CdF	Caneyville-Rock outcrop complex, 25 to 50 percent slopes
NeD2	Chetwynd loam, 12 to 18 percent slopes, eroded	CeD2	Chetwynd loam, 8 to 18 percent slopes, eroded
NeF	Negley loam, 18 to 35 percent slopes	CeF	Chetwynd loam, 18 to 35 percent slopes
ChB	Cincinnati silt loam, 2 to 6 percent slopes	ChB	Cincinnati silt loam, 2 to 6 percent slopes
ChC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded	ChC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded
CrB	Crider silt loam, 2 to 6 percent slopes	CoB	Crider silt loam, 2 to 6 percent slopes
CrC2	Crider silt loam, 6 to 12 percent slopes, eroded	CoC2	Crider silt loam, 6 to 12 percent slopes, eroded
CrD2	Crider silt loam, 12 to 18 percent slopes, eroded	CoD2	Crider silt loam, 12 to 18 percent slopes, eroded
CrC3	Crider silt loam, 6 to 12 percent slopes, severely eroded	CrC3	Crider silty clay loam, 6 to 12 percent slopes, severely eroded
CrD3	Crider silt loam, 12 to 18 percent slopes, severely eroded	CrD3	Crider silty clay loam, 12 to 18 percent slopes, severely eroded
CsC2, CsC3	Crider silt loam, karst, 6 to 12 percent slopes eroded	CsC2	Crider silt loam, karst, 4 to 12 percent slopes, eroded

WASHINGTON COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
CtD2, CsD2, CsD3	Crider-Frederick silt loam, karst, 12 to 18 percent slopes, eroded	CtD2	Crider-Frederick silt loams, karst, 12 to 22 percent slopes, eroded
Cu	Cuba silt loam, frequently flooded	Cu	Cuba silt loam, frequently flooded
Cw	Cuba silt loam, occasionally flooded	Cw	Cuba silt loam, occasionally flooded
DbA	Dubois silt loam, 0 to 2 percent slopes	DbA	Dubois silt loam, 0 to 2 percent slopes
ElB	Elkinsville silt loam, 2 to 6 percent slopes	ElB	Elkinsville silt loam, 2 to 6 percent slopes
ElC2	Elkinsville silt loam, 6 to 12 percent slopes, eroded	ElC2	Elkinsville silt loam, 6 to 12 percent slopes, eroded
FwD2, FrD2K, FtD3K	Frederick silt loam, karst, 12 to 18 percent slopes, eroded	FwD2	Frederick silt loam, karst, 12 to 22 percent slopes, eroded
FxC2	Frederick-Baxter Variant complex, karst, 6 to 12 percent slopes, eroded	FxC2	Frederick-Baxter Variant complex, karst, 4 to 12 percent slopes, eroded
GLD2	Gilpin silt loam, 12 to 18 percent slopes, eroded	GLD2	Gilpin silt loam, 12 to 18 percent slopes, eroded
BgF, GLE2	Gilpin-Berks loams, 18 to 50 percent slopes	GnF	Gilpin-Berks loams, 18 to 50 percent slopes
EbE, GLE2, BgF	Ebal silt loam, 18 to 25 percent slopes	GpF	Gilpin-Berks-Ebal complex, 18 to 50 percent slopes

WASHINGTON COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
HaC2	Hagerstown silt loam, 6 to 12 percent slopes, eroded	HaC2	Hagerstown silt loam, 6 to 12 percent slopes, eroded
HcC3, HeC3	Hagerstown silty clay loam, 6 to 12 percent slopes, severely eroded	HcC3	Hagerstown silty clay loam, 6 to 12 percent slopes, severely eroded
HbD2, HaD2, HbD3, HcD3	Hagerstown-Caneyville silt loams, 12 to 18 percent slopes, eroded	HeD2	Hagerstown-Caneyville silt loams, 12 to 18 percent slopes, eroded
HhB	Haubstadt silt loam, 2 to 6 percent slopes	HhB	Haubstadt silt loam, 2 to 6 percent slopes
Hm, Hd	Haymond silt loam, frequently flooded	Hm	Haymond silt loam, frequently flooded
HrD2	Hickory silt loam, 12 to 18 percent slopes, eroded	HrD2	Hickory silt loam, 12 to 18 percent slopes, eroded
MaB, MbC2, MaC2, MaD2	Markland silt loam, 2 to 6 percent slopes	MaB	Markland silt loam, 2 to 8 percent slopes
MgA	McGary silt loam, 0 to 2 percent slopes	MgA	McGary silt loam, 0 to 2 percent slopes
Mo, Pc	Montgomery silty clay loam	Mo	Montgomery silty clay loam
No, Su	Nolin silt loam, frequently flooded	No	Nolin silt loam, frequently flooded
OtC2	Otwell silt loam, 6 to 12 percent slopes, eroded	OtC2	Otwell silt loam, 6 to 12 percent slopes, eroded
PeA	Pekin silt loam, 0 to 2 percent slopes	PeA	Pekin silt loam, 0 to 2 percent slopes
PeB	Pekin silt loam, 2 to 6 percent slopes	PeB	Pekin silt loam, 2 to 6 percent slopes

WASHINGTON COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
PeC2	Pekin silt loam, 6 to 12 percent slopes eroded	PeC2	Pekin silt loam, 6 to 12 percent slopes, eroded
Pg	Peoga silt loam	Pg	Peoga silt loam
Ph, Lp	Peoga silt loam, clayey substratum	Ph	Peoga silt loam, clayey substratum
Pt	Pits, quarries	Pt	Pits, quarries
RSE	Rossmoyne silt loam, 2 to 6 percent slopes	RSB	Rossmoyne silt loam, 2 to 6 percent slopes
St	Stendal silt loam, frequently flooded	Sf	Stendal silt loam, frequently flooded
So	Stendal silt loam, occasionally flooded	So	Stendal silt loam, occasionally flooded
Wa	Wakeland silt loam, frequently flooded	Wa	Wakeland silt loam, frequently flooded
WeC2	Wellston silt loam, 6 to 12 percent slopes, eroded	WeC2	Wellston silt loam, 6 to 12 percent slopes, eroded
WeD2, WgD2	Wellston silt loam, 12 to 18 percent slopes	WeD	Wellston silt loam, 12 to 18 percent slopes
TLB, TLA	Zanesville silt loam, 1 to 6 percent slopes	ZaB	Zanesville silt loam, 1 to 6 percent slopes
ZaC2	Zanesville silt loam, 6 to 12 percent slopes, eroded	ZaC2	Zanesville silt loam, 6 to 12 percent slopes, eroded
Zp	Zipp silty clay	Zp	Zipp silty clay

Series Established by This Correlation:

None

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist certifies that:

1. The mapping is completed.
2. The general soil map and detailed maps join with adjacent completed surveys. The detailed map joined was reviewed extensively during the conference. Indiana and the MNTC have copies of the changes as agreed upon during the conference.
3. The interpretations are coordinated.
4. The legal descriptions are correct and typical pedon descriptions are from soil areas using the reference name.

Verification of Exact Cooperator Names:

Outside front cover:

United States Department of Agriculture
Soil Conservation Service
in cooperation with
Purdue University
Agricultural Experiment Station
and
Indiana Department of Natural Resources,
Soil and Water Conservation Committee

Inside front cover:

This survey was made cooperatively by the Soil Conservation Service, Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources, Soil and Water Conservation Committee. It is part of the technical assistance furnished to the Washington County Soil and Water Conservation District. Financial assistance was made available by the Indiana Department of Natural Resources, and by the County Commissioners and approved by the County Council.

Disposition of Field Sheets:

The original field sheets are retained by the state and will be used in the map compilation and finishing procedure.

Prior Soil Survey Publication:

The first soil survey of Washington County was published in 1939. This survey updates the first survey and provides additional information and larger maps that show the soils in greater detail.

Instruction for Map Compilation and Map Finishing:

The symbols on the following conventional and special symbols legend are those that will be used in map finishing.

Date: 4/16/84

[illegible]

SOIL SURVEY WASHINGTON COUNTY, INDIANA

PRIME FARMLAND

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

Map symbol	Soil name
AlB	:Alvin fine sandy loam, 2 to 6 percent slopes
AvA	:Avonburg silt loam, 0 to 2 percent slopes (where drained)
Ba	:Bartle silt loam (where drained)
BdA	:Bedford silt loam, 0 to 2 percent slopes
BdB	:Bedford silt loam, 2 to 6 percent slopes
Bo	:Bonnie silt loam, frequently flooded (where drained and : protected from flooding or not frequently flooded during : the growing season)
Br	:Bromer silt loam (where drained)
Bu	:Burnside silt loam, occasionally flooded
ChB	:Cincinnati silt loam, 2 to 6 percent slopes
CoB	:Crider silt loam, 2 to 6 percent slopes
Cu	:Cuba silt loam, frequently flooded (where protected from : flooding or not frequently flooded during the growing : season)
Cw	:Cuba silt loam, occasionally flooded
DbA	:Dubois silt loam, 0 to 2 percent slopes (where drained)
ElB	:Elkinsville silt loam, 2 to 6 percent slopes
HhB	:Haubstadt silt loam, 2 to 6 percent slopes
Hm	:Haymond silt loam, frequently flooded (where protected : from flooding or not frequently flooded during the : growing season)
MaB	:Markland silt loam, 2 to 8 percent slopes
MgA	:McGary silt loam, 0 to 2 percent slopes (where drained)
Mo	:Montgomery silty clay loam (where drained)
No	:Nolin silt loam, frequently flooded (where protected from : flooding or not frequently flooded during the growing : season)
PeA	:Pekin silt loam, 0 to 2 percent slopes
PeB	:Pekin silt loam, 2 to 6 percent slopes
Pg	:Peoga silt loam (where drained)
Ph	:Peoga silt loam, clayey substratum (where drained)

SOIL SURVEY WASHINGTON COUNTY, INDIANA

PRIME FARMLAND--Continued

Map symbol	Soil name
RsB	: Rossmoyne silt loam, 2 to 6 percent slopes
Sf	: Stendal silt loam, frequently flooded (where drained and : protected from flooding or not frequently flooded during : the growing season)
So	: Stendal silt loam, occasionally flooded (where drained)
Wa	: Wakeland silt loam, frequently flooded (where drained and : protected from flooding or not frequently flooded during : the growing season)
ZaB	: Zanesville silt loam, 1 to 6 percent slopes
Zp	: Zipp silty clay (where drained)

Approved: July 9, 1984

Rodney F. Harner

RODNEY F. HARNER
 Head, Soils Staff
 Midwest NTC

CONVERSION LEGEND FOR
WASHINGTON COUNTY, INDIANA

Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol	Field symbol	Publi-cation symbol
Ava	Ava	GLE2	GpF *	Wa	Wa		
Ba	Ba	GLE2	GnF	WeC2	WeC2		
BdA	BdA	HaC2	HaC2	WeD2	WeD		
BdB	BdB	HaD2	HeD2	WgD2	WeD		
BdC2	BdC2	HaE2	CaE2	ZaC2	ZaC2		
BoF	GpF*	HaE3	CaE2	Zp	Zp		
BoF	GnF	HbD2	HeD2				
BhF	BhF	HbD3	HeD2				
BmB	ALB	HcC3	HcC3				
BmC	BmC	HcD3	HeD2				
BmF	BmF	Hd	Hm				
Bo	Bo	HeC3	HcC3				
Br	Br	HhB	HhB				
Bu	Bu	Hm	Hm				
CaE2	CaE2	HrD2	HrD2				
CdF	CdF	Lp	Ph				
ChB	ChB	MaB	MaB				
ChC2	ChC2	MaC2	MaB				
CoF	CdF	MaD2	MaB				
CrB	CoB	MbC2	MaB				
CrC2	CoC2	MgA	MgA				
CrC3	CrC3	Mo	Mo				
CrD2	CoD2	NeD2	CeD2				
CrD3	CrD3	NeF	CeF				
CsC2	CsC2	No	No				
CsC3	CsC2	Otc2	Otc2				
CsD2	Ctd2	Pc	Mo				
CsD3	Ctd2	PeA	PeA				
Ctd2	Ctd2	PeB	PeB				
Cu	Cu	PeC2	PeC2				
Cw	Cw	Pg	Pg				
DbA	DbA	Ph	Ph				
EbE	GpF	PrB	ALB				
ELB	ELB	Pt	Pt				
ELC2	ELC2	RsB	RsB				
FrD2K	FwD2	So	So				
FtD3K	FwD2	St	Sf				
FwD2	FwD2	Su	No				
FxC2	FxC2	TLA	ZaP				
GLD2	GLD2	TLB	ZaB				

*in southwest part of
the county - see overlay

CLASSIFICATION OF PEDONS SAMPLED
FOR LABORATORY ANALYSIS

1. Laboratory Data from Purdue University with SCS-SOILS-8 forms for typical pedons.

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name of Classification</u>
Princeton	S81IN175-10-(1-9)	A1B	Alvin
Avonburg	S81IN175-7-(1-10)	AvA	Avonburg
Baxter Variant	S80IN175-7-(1-7)	FxC2	Baxter Variant-- Clayey-skeletal, mixed, mesic Typic Hapludults
Berks	S80IN175-17-(1-5)	BhF	Berks
Bonnie	S80IN175-19-(1-6)	Bo	Bonnie
Cincinnati	S80IN175-8-(1-11)	ChC2	Cincinnati
Cuba	S80IN175-13-(1-6)	Cu	Cuba taxadjunct-- Coarse-silty, mixed, mesic Fluventic Dystrochrepts
Frederick	S81IN175-14-(1-9)	CtD2	Frederick taxadjunct-- Fine, mixed, mesic Typic Hapludalfs
Hagerstown	S79IN175-6-(1-6)	HeD2	Hagerstown
Haymond	S79IN175-7-(1-8)	Hm	Haymond
Rossmoyne	S81IN175-6-(1-11)	HhB	Haubstadt
Markland	S81IN175-4-(1-8)	MaB	Markland
McGary	S81IN175-3-(1-8)	MgA	McGary
Montgomery	S80IN175-1-(1-7)	Mo	Montgomery
Nolin	S80IN175-2-(1-7)	No	Nolin
Pekin	S79IN175-4-(1-6)	PeB	Pekin taxadjunct-- Fine-silty, mixed, mesic Aquic Fragiudults

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name of Classification</u>
Peoga	S79IN175-1-(1-6)	Pg	Peoga taxadjunct-- Fine-silty, mixed, mesic Typic Ochraquults
Stendal	S80IN175-14-(1-5)	Sf	Stendal taxadjunct-- Coarse, silty, mixed, acid, mesic Aeric Fluvaquents
Wakeland	S79IN175-8-(1-7)	Wa	Wakeland
Weikert	S81IN175-1-(1-2)	BhF	Weikert
Wellston	S81IN175-15-(1-8)	WeD	Wellston
Tilsit	S79IN175-9-(1-7)	ZaB	Zanesville
Zipp	S80IN175-18-(1-6)	Zp	Zipp

2. Laboratory Data from Purdue University with SCS-SOILS-8 forms for pedons other than typical pedons.

Bartle	S79IN175-2-(1-6)	Ba	Bartle taxadjunct-- Coarse-silty, mixed, mesic Aeric Fragiudults
Baxter Variant	S80IN175-9-(1-5)	FxC2	Baxter Variant
Burnside	S81IN175-11-(1-7)	Bu	Burnside taxadjunct-- Loamy-skeletal, mixed, mesic Typic Udifluvents
Negley	S81IN175-13-(1-11)	CeF	Chetwynd taxadjunct-- Coarse-loamy, mixed, mesic Typic Hapludults
Crider	S78IN175-1-(1-6)	CrB	Crider taxadjunct-- Fine-silty, mixed, mesic Typic Hapludalfts
Elkinsville	S80IN175-16-(1-6)	ElC2	Elkinsville taxadjunct-- Fine-loamy, mixed, mesic Typic Hapludults

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name of Classification</u>
Frederick	S80IN175-8-(1-6)	FxC2	Frederick taxadjunct-- Fine, mixed, mesic Typic Paleudalfs
Frederick	S80IN175-10-(1-7)	FxC2	Frederick taxadjunct-- Fine, mixed, mesic Typic Hapludalfs
Frederick	S80IN175-11-(1-10)	FxC2	Frederick taxadjunct-- Fine, mixed, mesic Typic Hapludalfs
Frederick	S80IN175-12-(1-6)	FxC2	Frederick taxadjunct-- Clayey, mixed, mesic Typic Hapludults
Stonelick	S80IN175-3-(1-5)	No	Stonelick-- Included with Nolin
Peoga, clayey substratum	S80IN175-15-(1-9)	Ph	Peoga, clayey substratum
Zanesville	S79IN175-3-(1-5)	ZaC2	Zanesville taxadjunct-- Fine-silty, mixed, mesic Typic Fragiudults

3. Engineering test data and SCS-SOILS-10 forms for pedons tested by the State Highway Department of Indiana, Division of Materials and Tests.

Canyeville	S80IN175-6	CaE2	Caneyville
Ebal	S81IN175-9	GpF	Ebal
Frederick	S81IN175-14	FwD2	Frederick taxadjunct-- Fine, mixed, mesic Typic Hapludalfs
Gilpin	S81IN175-12	GpF	Gilpin

Notes to Accompany
Classification and Correlation
of the Soils of
Washington County, Indiana
by
Louie L. Buller

AVONBURG SERIES

This soil is mapped in the northeast corner of the county adjacent to Jackson County. Avonburg is mapped in association with Dubois soils, in fact the two soils are mapped on the same level on an A slope. Dubois is mapped on elevations of 560 to 580 feet and Avonburg on elevations of 580 to 600 feet.

Indiana is mapping the Avonburg series because it ties in with a Bob Ruhe study and there are more acres of the Avonburg soils in adjoining Jackson County.

BARTLE SERIES

This soil is a taxadjunct because it has lower base status than typical for the series. The typical pedon classifies as fine-silty, mixed, mesic Aeric Fragiudults.

BAXTER VARIANT

This is a very cherty counterpart of the Frederick soils. It is mapped in complex with the Frederick soils and classifies as clayey-skeletal, mixed, mesic Typic Hapludults.

BEDFORD SERIES

This soil is a taxadjunct because the base saturation is higher than permitted by Udults and the depth to the high clay content layer is deeper than typical for the series. The taxadjunct classifies as fine-silty, mixed, mesic Typic Fragiudalfs.

BROMER SERIES

There was lab data on pedon (S78IN175-2) but the data had a 28- to 36-inch layer with 47 percent clay. The high clay content in this layer was apparently a laboratory error. We elected to discard the lab data and retain the pedon as typical for the Bromer series.

CHETWYND SERIES A new typical pedon was selected during the correlation conference. The soil is a taxadjunct because it has reaction and base status that is higher than is typical for series. The taxadjunct classifies as fine-loamy, mixed, mesic Typic Hapludalfs.

CUBA SERIES

The soils are taxadjunct because the clay content is less than permitted by the series and solum is slightly thicker than permitted by the series. The taxadjunct classifies as coarse-silty, mixed, mesic Fluventic Dystrochrepts.

FREDERICK SERIES

The soil is a taxadjunct because it has higher base saturation than permitted by the series. The taxadjunct classifies as fine, mixed, mesic Typic Paleudalfs.

MARKLAND SERIES

A small unit of Markland silty clay loam 6 to 12 percent slopes, eroded combined with the Markland silt loam, 2 to 8 percent slopes, unit. We increased the slope range on the latter unit from 6 to 8 percent and included silty clay loam surface textures in the ranges in the mapping unit.

NOLIN SERIES

Included in the map unit are 125 acres of soil brought to correlation as Stonelick. This soil has a calcareous, fine sandy loam surface. The delineations which are removed will be identified with a calcareous spot ad hoc symbol.

PEKIN SERIES

This soil is a taxadjunct because it has lower base status than typical for the series. The taxadjunct classifies as fine-silty, mixed, mesic Aquic Fragiudults.

PEOGA SERIES

The typical pedon is a taxadjunct because it has lower base status than typical for the series. The taxadjunct classifies as fine-silty, mixed, mesic Typic Ochraqults.

The clay content in the control section is 18 percent and the sand content at 15 percent. These percentages are somewhat lower than typical for the Peoga series. The series is mapped in association with Cuba and Stendal soils which are taxadjuncts because they are also low in clay content.

The Peoga silt loam, clayey substratum map unit is not a taxadjunct. It is mapped in a higher lying position and joins with a mapping unit by the same name in Orange County.

STENDAL SERIES

This soil is a taxadjunct because it has lower base status than permitted by the series. The taxadjunct classifies as a coarse-silty, mixed, acid, mesic Aeric Fluvaquents.

SOIL SURVEY WASHINGTON COUNTY, INDIANA

CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates a taxadjunct to the series. See notes for a description of those characteristics of this taxadjunct that are outside the range of the series)

Soil name	Family or higher taxonomic class
Alvin-----	Coarse-loamy, mixed, mesic Typic Hapludalfs
Avonburg-----	Fine-silty, mixed, mesic Aeric Fragiaqualfs
*Bartle-----	Fine-silty, mixed, mesic Aeric Fragiaqualfs
Baxter	Clayey-skeletal, mixed, mesic Typic Paleudults
Variant.	
*Bedford-----	Fine-silty, mixed, mesic Typic Fragiudults
Berks-----	Loamy-skeletal, mixed, mesic Typic Dystrochrepts
Bloomfield---	Sandy, mixed, mesic Psammentic Hapludalfs
Bonnie-----	Fine-silty, mixed, acid, mesic Typic Fluvaquents
Bromer-----	Fine-silty, mixed, mesic Aeric Ochraqualfs
Burnside-----	Loamy-skeletal, mixed, acid, mesic Typic
	Udifulvents
Caneyville---	Fine, mixed, mesic Typic Hapludalfs
*Chetwynd-----	Fine-loamy, mixed, mesic Typic Hapludults
Cincinnati---	Fine-silty, mixed, mesic Typic Fragiudalfs
Crider-----	Fine-silty, mixed, mesic Typic Paleudalfs
*Cuba-----	Fine-silty, mixed, mesic Fluventic Dystrochrepts
Dubois-----	Fine-silty, mixed, mesic Aeric Fragiaqualfs
Ebal-----	Fine, mixed, mesic Ultic Hapludalfs
Elkinsville	Fine-silty, mixed, mesic Ultic Hapludalfs
*Frederick----	Clayey, mixed, mesic Typic Paleudults
Gilpin-----	Fine-loamy, mixed, mesic Typic Hapludults
Hagerstown---	Fine, mixed, mesic Typic Hapludalfs
Haubstadt----	Fine-silty, mixed, mesic Aquic Fragiudalfs
Haymond-----	Coarse-silty, mixed, nonacid, mesic Typic
	Udifulvents
Hickory-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Markland-----	Fine, mixed, mesic Typic Hapludalfs
McGary-----	Fine, mixed, mesic Aeric Ochraqualfs
Montgomery---	Fine, mixed, mesic Typic Haplaquolls
Nolin-----	Fine-silty, mixed, mesic Dystric Fluventic
	Eutrochrepts
Otwell-----	Fine-silty, mixed, mesic Typic Fragiudalfs

SOIL SURVEY WASHINGTON COUNTY, INDIANA

CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
*Pekin-----	Fine-silty, mixed, mesic Aquic FragiudalFs
*Peoga-----	Fine-silty, mixed, mesic Typic OchraqualFs
Rossmoyne----	Fine-silty, mixed, mesic Aquic FragiudalFs
*Stendal-----	Fine-silty, mixed, acid, mesic Aeric Fluvaquents
Wakeland-----	Coarse-silty, mixed, nonacid, mesic Aeric Fluvaquents
Weikert-----	Loamy-skeletal, mixed, mesic Lithic Dystrochrepts
Wellston-----	Fine-silty, mixed, mesic Ultic HapludalFs
Zaner-ville---	Fine-silty, mixed, mesic Typic FragiudalFs
Zipp-----	Fine, mixed, nonacid, mesic Typic Haplaquepts